

App# No. 10/099,894
Amend. dated on November 21, 2003
Preliminary Amendment

Amendments to the Specification:

Please amend the Specification as follows:

Please replace the paragraph (including the heading) beginning at page 1, line 5, with the following rewritten paragraph:

**CROSS REFERENCE TO RELATED APPLICATION AND CLAIM OF
BENEFIT**
REFERENCE TO PROVISIONAL APPLICATION

A¹
This application is a continuation of United States Application No. 09/404,505 filed on September 23, 1999 and ~~This non-provisional patent application~~ claims the benefit of provisional patent application No. 60/101,673 filed on September 24, 1998 and entitled "SYSTEM AND METHOD FOR PROVIDING TELECOMMUNICATION SERVICES TO CELLULAR ROAMERS", which is incorporated in its entirety by reference herein.

Please replace the paragraph beginning at page 2, line 16 and ending on page 3, line 8 with the following rewritten paragraph:

A²
Roaming in a wireless system typically functions as follows. When a traveler arrives at his destination and turns on or logs on his wireless communications device, a process known as Autonomous Registration occurs. The wireless device transmits a unique identifying data stream to the nearest base station of the local wireless system. The base station adds its unique cell/sector identification number to the Autonomous Registration data stream and sends the information to a mobile switching center, or MSC. The MSC determines whether the traveler's device is a "home" user with current billing information on file or whether it is a foreign user, i.e., roaming. If the MSC determines that the traveler's wireless communications device is roaming, it transmits an inquiry message to the home cellular network of the roaming device and

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A²
verifies authorization and billing information. The MSC then allows the roaming device to register for calls by storing the device's registration information in a Visitor~~Visitors~~' Location Register, or VLR. The registration information regarding a roaming wireless communications device is rich in information about the roaming device. From the information derived from the roaming device, assumptions can be made regarding the information needs of the traveler using the device. However, there has previously been no method or system for utilizing this information outside of the wireless system.

Please replace the paragraph beginning at page 4, line 2 with the following rewritten paragraph:

A³
The present invention satisfies the above-described needs by providing a method for providing information services to a wireless device roaming in a wireless system. In one embodiment, normal network message traffic information is obtained from a wireless system. The normal network message traffic information comprises a Mobile Identification Number 1 (MIN 1), a Mobile Identification Number 2 (MIN 2), a Station Class Mark (SCM), and an Electronic Serial Number (ESN). The normal network traffic information may also comprise the System Identification Designation Numbers~~system identification~~, or SID, of the wireless device's home wireless network. The normal network traffic information may further comprise roamer pre-selection options, GPS coordinates, and/or triangulation coordinates.

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Please replace the paragraph beginning at page 4, line 20 and ending on page 5, line 2 with the following rewritten paragraph:

A4
The extracted specific information pieces are transmitted to a data interpreter. In the data interpreter, the specific information pieces are translated into the format needed by a message selection device and an outcall interactive voice response (IVR) or short message service (SMS) server. The specific information pieces are transmitted to the message selection and outcall devices. The outcall message devices may then transmit messages and information to the wireless device.

Please replace the paragraph beginning at page 7, line 6 with the following rewritten paragraph:

A5
The wireless system 100 may further comprise a Visitor-Visitors' Location Register 125, or VLR. The VLR 125 is a local database to the MSC 115 for registering visiting, or roaming, cellular telephones, such as cellular telephone 135. This information is typically retained at the VLR 125 as long as the roaming cellular telephone resides in the geographical area covered by the MSC 115. The VLR 125 obtains information from the home HLR of the roaming user to provide services to the roaming user. The VLR 125 may reside in the same location as the MSC 115.

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Please replace the paragraph beginning at page 9, line 4 with the following rewritten paragraph:

file
The MSC 115 transmits the inquiry message over one of the national Signaling System 7 (SS7) networks 130 to the home cellular network of the "registering" cellular telephone. The MIN 1 and MIN 2 of the "registering" cellular telephone contains information that allows the inquiry message to be routed to the roaming cellular telephone's home cellular network. The telephone's home cellular network verifies that the "registering" telephone is indeed registered as an authorized user on the home cellular network and that the "registering" telephone has associated billing information. After this verification, the home cellular network adds its System Identification Designation Number (SID)-number to a return message that is transmitted to the MSC 115. The MSC 115 examines the SID to determine if there is a billing agreement between the companies that operate the base stations and allows or disallows the "registering" cellular telephone to register for calls based on this determination.